2.3: Data and Analysis

Data Collection (Data and Analysis)

(Acquiring competencies) Following your detailed protocol based on the videos, perform all the experiments. Record your observations and take pictures of your key steps in the process. Your observations and images need to be incorporated in your data section and this section should be as detailed as possible as you will use this information to complete your discussion.

Data Processing (Data and Analysis)

1. (Interpretation) Identify the changes that were observed in this experiment. Classify the changes as physical or chemical.

2. (Representation) Create a table that includes at least the following information from you and your team members. You may include additional information (ex. your room temperature, cover on/off, etc.) that you think is relevant.

Student Name	Volume of hot water (mL)	Temperature of hot water(°C)	Mass of alum (g)	Time until first crystal appeared	Number of crystals	Shape of crystals

3. (Interpretation) Identify at least one aspect that all the experiments were similar in, and one aspect that the experiments differed in.

4. (Assumptions and Analysis) Fill in the following table using the observations and data from your experiments.

Assumptions made	Testing the assumption	If assumptions are wrong ...
All solids dissolve in water.	Dissolve multiple solids in water.	Some will dissolve and some will not.
The distilled water is pure.	Evaporate it and check for residue.	